Notes by Frederick W. Baldwin, October 22, 1909

1909, October 2 Friday at B. B. I don't know QUERY EXPERIMENT

Oct. 22: —We put the hydrosurfaces on the Query this morning. Made her fast to the wharf with her bow pointing down the harbor, so that if the engine should start we could get away by letting go the line. After a great deal of fussing the motor started spasmodically and we let her go.

We ran down to the first mark with the engine turning over probably from 500 to 700 rpm. Malcolm McFarlane and John McLean, who were on the wharf, said the hull was clear shortly after leaving the first mark. She rose very steadily The upper forward surface was well out of the water and she seemed to me to be trimmed too much by the stern so I moved forward to correct this. Moving forward put the upper surface in again with asplash and a lot of spray was thrown over Bedwin and the engine. The motor stopped at once the water having short-circuited the ignition, and we towed her back to the boathouse.

Bedwin said that I was wrong in supposing that she was not trimmed properly as the upper after surfaces were also well clear of the water; and this must have been the case if the boat was clear of the water as those who witnessed the experiment observed.

The boat and engine and surfaces complete ready for the water weighed 697 lbs., and as we had at least 3 lbs of water in her during the experiment we can take the weights as follows:— 2

Boat complete 700 lbs

Bedwin 145 lbs

Baldwin 185 lbs

Total 1030 lbs

We did not have time to get an estimate of speed but I should judge, from the results of the towing experiments, that a speed of about 15 miles an hour was necessary to lift this weight. It is quite impossible to even guess at how much power we were getting from the engine as it was skipping badly and the spark was not advanced.

We propose to put on a tachometer with a belt drive so that the speed of the engine can be known observed ; also two spray shields running back from the forward trusses to keep the to water from the engine. FWB